Information Security
A Microsoft Perspective

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Microsoft and Security

- ◆ **Building products with security as a primary design consideration**
  - ➢ **See Microsoft security commitment –** http://www.microsoft.com/technet/treeview/default.asp?url=/technet/itsolutions/security/policy/policy.asp
  - ➢ **Technology encompasses features *and* assurance**
  - ➢ **Security response process backs products**
- ◆ **Offering solutions to protect the the integrity and privacy of customers' data**
  - ➢ **Tools**
  - ➢ **Information and best practices**
  - ➢ **Services and partners**
- ◆ **Playing our role as a community leader**
  - ➢ **Working with governments on infrastructure security and cybercrime**

Window XP and .NET Server
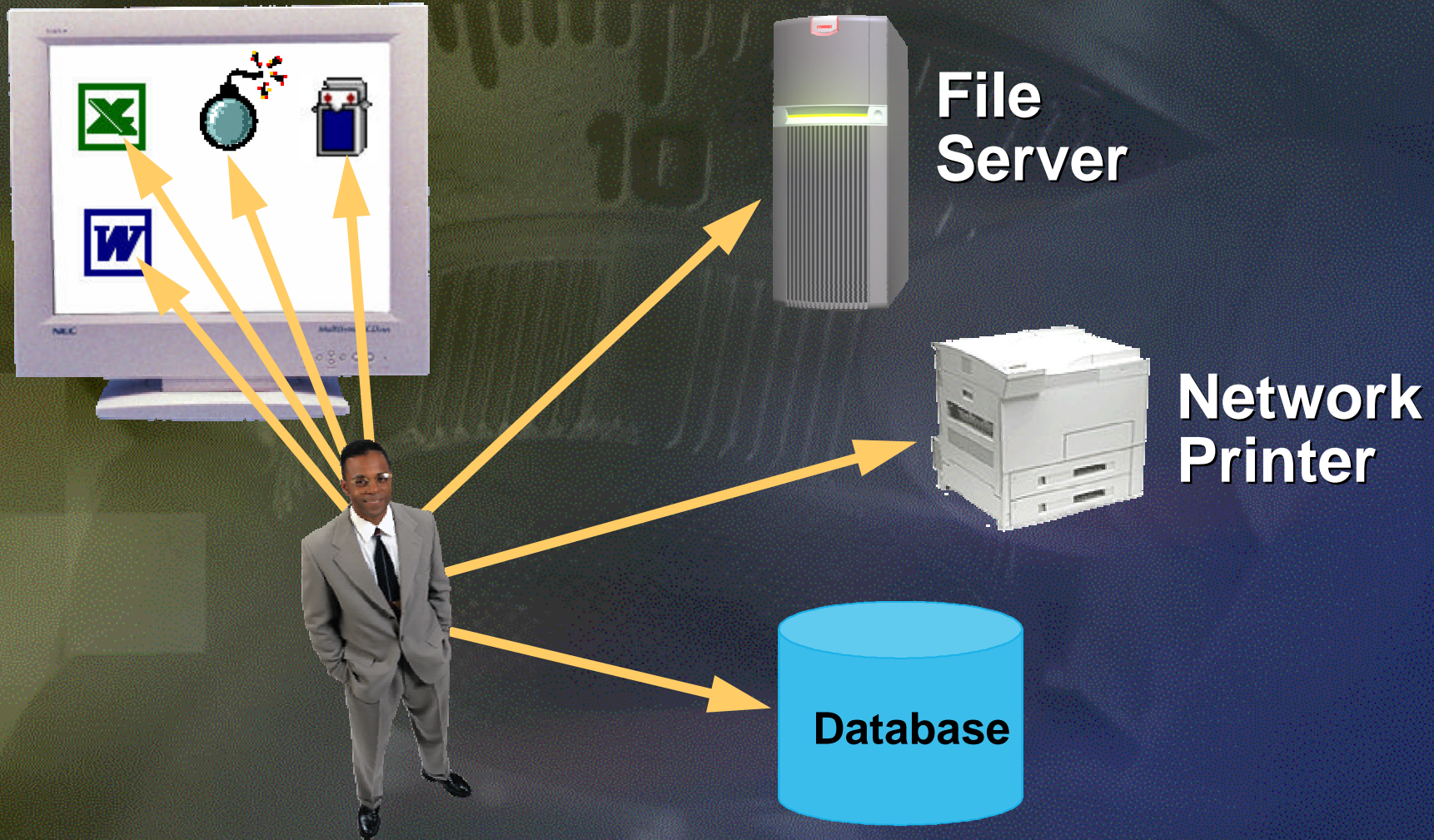## A preview of new security features

- Windows XP "Internet Connection Firewall"
- Limitations on local admin passwords
- PKI Improvements
  - Auto-enrollment and auto-renewal: easy deployment!
  - More admin functions integrated with smart cards
  - Smart card support in Terminal Server
  - Interoperability – smart cards, EFS
  - Improved key archival, recovery and cross-certification
- Security Configuration Enhancements
  - Avoids concern over security of defaults
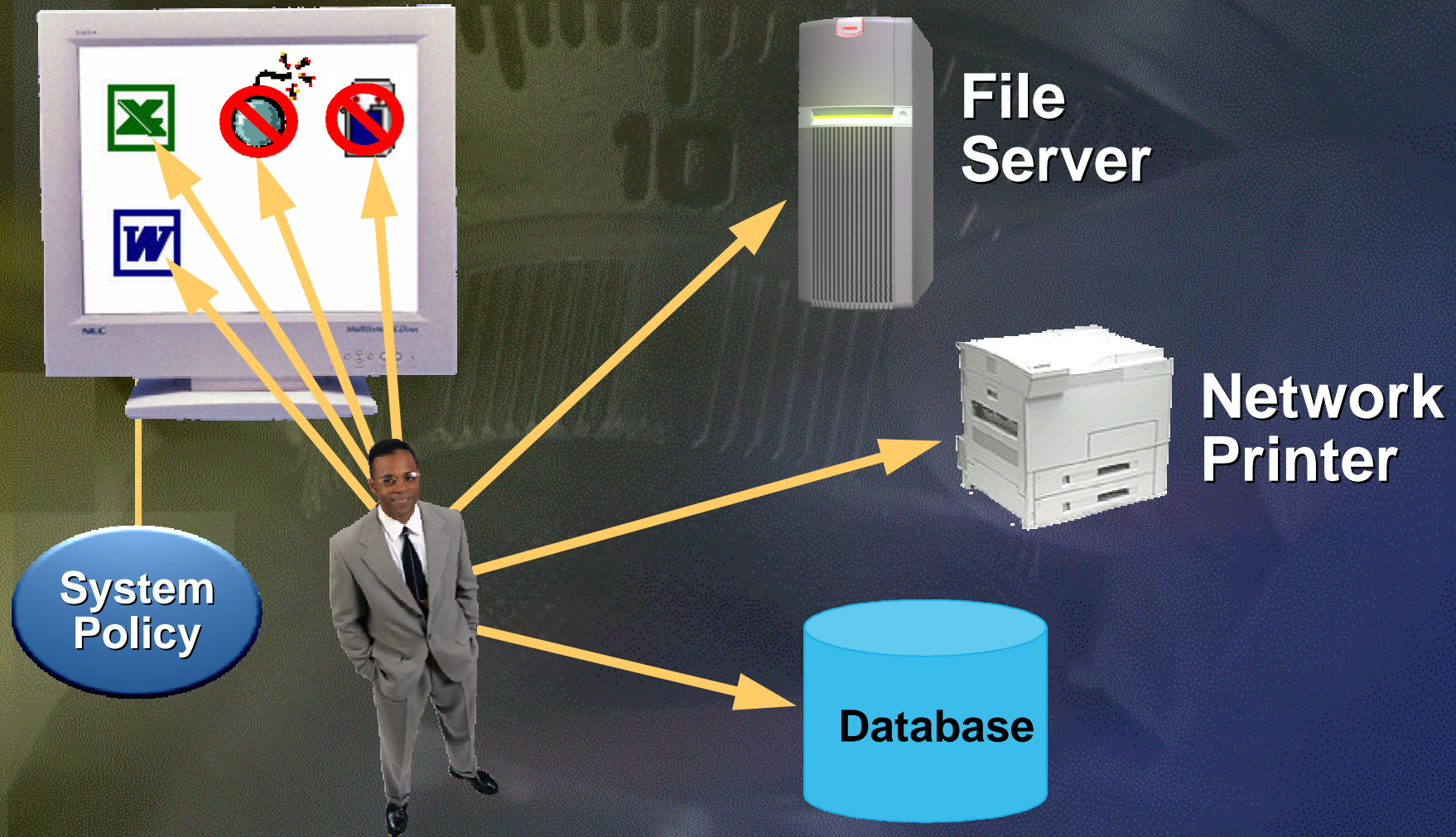
Windows XP Internet Connection Firewall
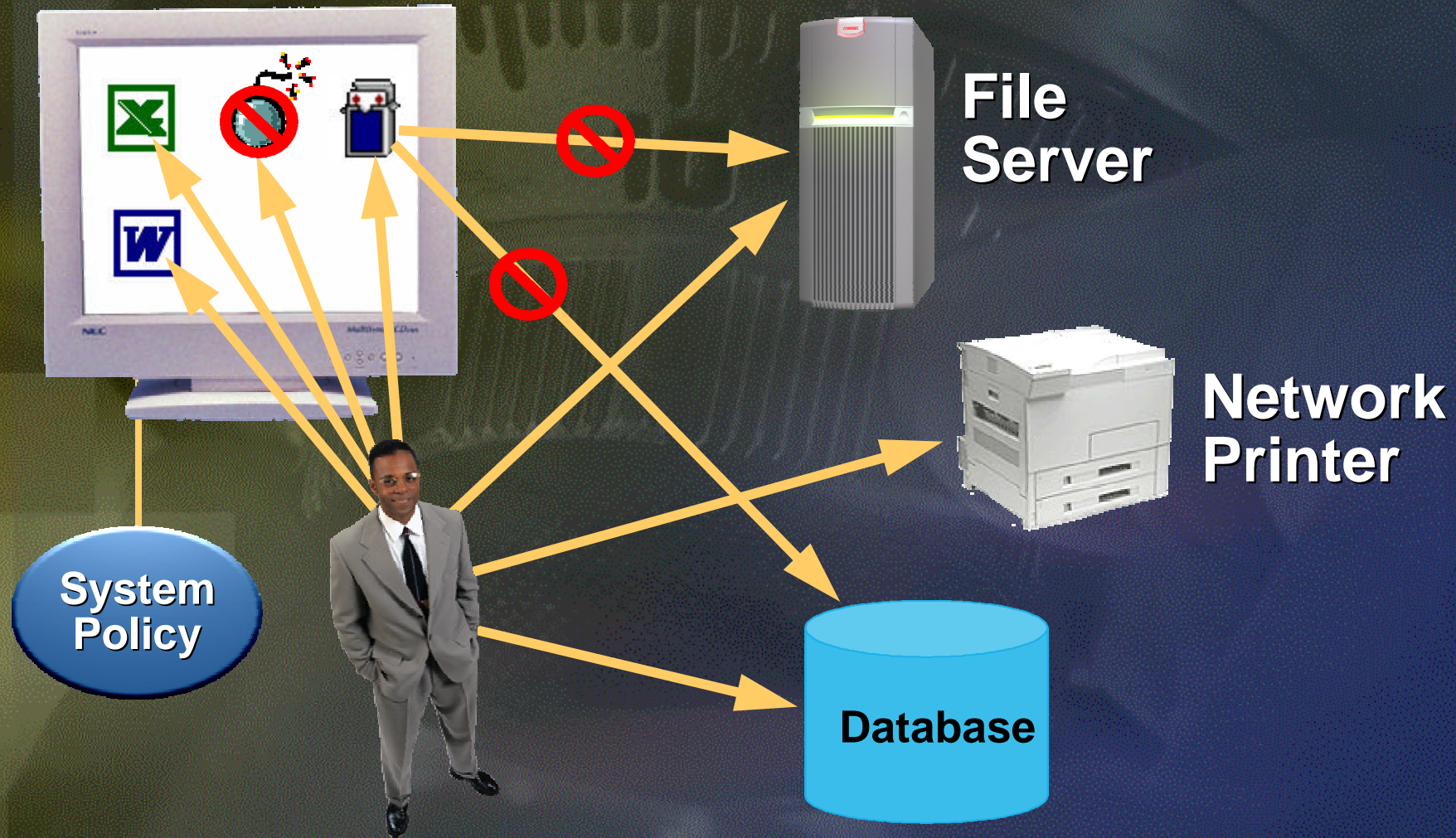
War on Hostile Code
Classic Model

File Server

Network Printer

Database

Authorization Model
With Software Restriction Policies

File Server

Network Printer

System Policy

Database

Secure Windows Initiative

Education

Process

Testing

Tools
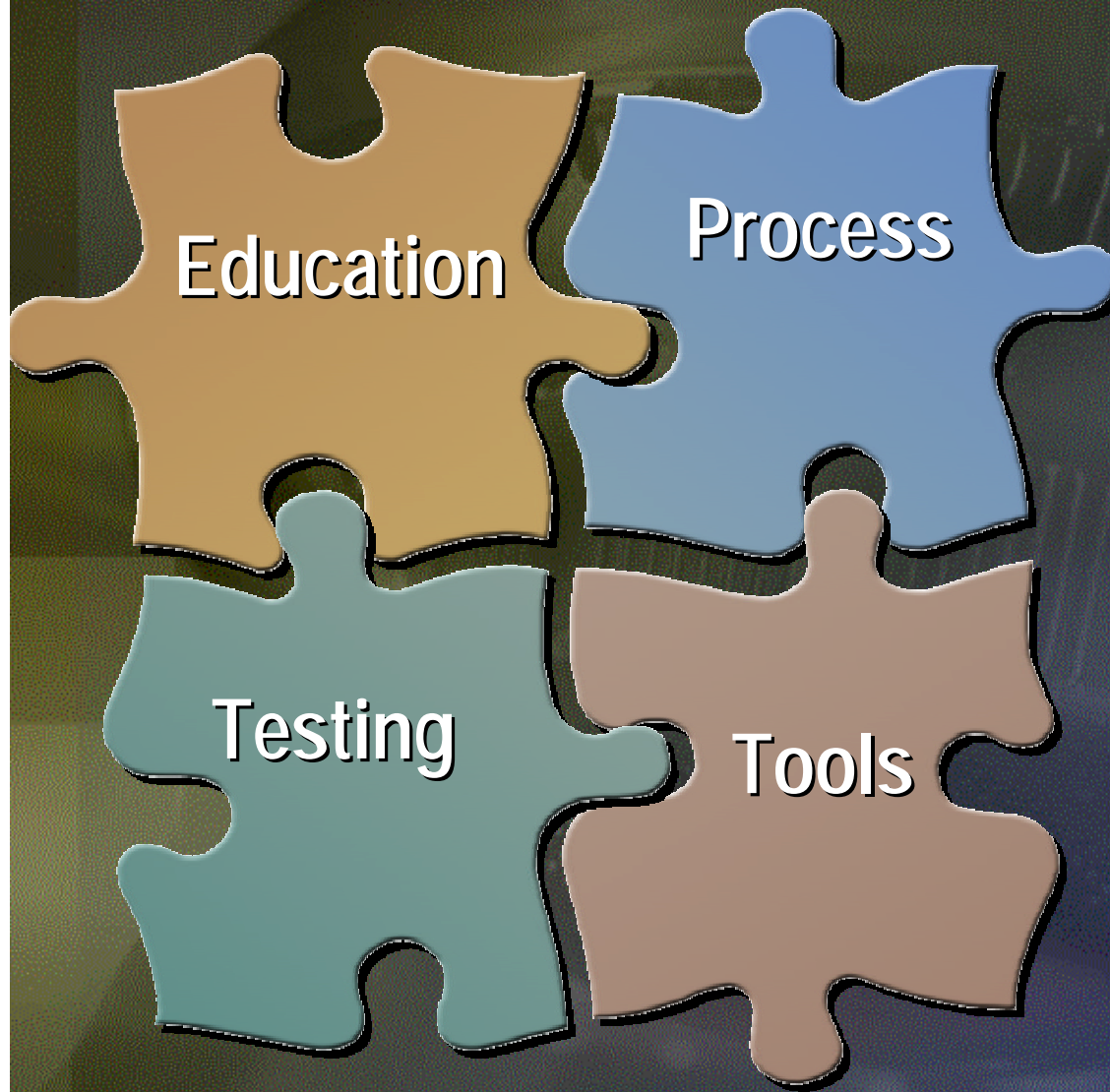
Goal: Improve the security assurance of all our software products so that our customers will get the level of security they need

Solutions
Security Response Process

- **Microsoft Security Response Center**
  - ➤ **Seven day a week operation**
  - ➤ **Weekly reports to highest levels of the company**
  - ➤ **Proactive response to vulnerabilities**
- **Bulletins provide specific response measures**
- **Severity rating system to assess potential impact**

"There was a time when they [Microsoft] would treat an information release quite differently. In recent years, Microsoft has poured money and personnel into responding to bugs, and has improved its relations with those who publicize them."

Mudge as quoted by John Schwartz of the NYT

Solutions
Tools and Information

- **Security checklists**
  - ➢ **Cover common system applications**
- **Microsoft Personal Security Advisor**
  - ➢ **Configuration scanner for NT, Windows 2000 desktops**
- **HFNetChk**
  - ➢ **Allows system administrator to evaluate security patch status**
- **IIS Lockdown Tools**
  - ➢ **Protects server – even if many patches note applied**

Thoughts on Industrial Environments

- ◆ **Windows a general purpose system**
- ◆ **System designer/administrator must configure for environment**
- ◆ **Many tools provided to configure securely**
  - ➢ **See previous slide**
- ◆ **Software Restriction Policies and/or .NET Common Language Runtime to limit potential hostile programs**

Community Leadership

- **SafeNet 2000 Security and Privacy Summit**
  - Vulnerability reporting
  - Infrastructure protection
  - Risk management

  "[SafeNet 2000], which has attracted some of the country's leading security experts, was also designed to get industry-wide input on what issues need to be addressed."

  Scott Berinato/eWeek

- **Trusted Computing 2001**
  - Fall 2001 at the Microsoft Silicon Valley Campus
  - Invitational – tough issues bringing the community together
- **Government-industry partnerships**
  - IT ISAC, PCIS, NSTAC, CSSPAB

Security Is A Journey, Not A Destination…
Microsoft is mobilized around security

- ◆ **Revolutionizing the way we build products**

- ◆ **Providing new levels of secure solutions**

- ◆ **Meeting our obligation to lead**

Questions?